
Rule WLM021: Subsystem transaction service class assigned to resource group

Finding: A subsystem transaction service class was assigned to a resource group.

Impact: This finding has no known impact on the performance of your system. The finding is presented to alert you to the fact that assigning a subsystem transaction service class to a resource group has no effect.

Logic flow: This a basic finding. There are no predecessor rules.

Discussion: If subsystems are installed which support Workload Manager reporting (e.g., CICS/ESA Version 4.1 or IMS/ESA Version 5), installations can define service classes which describe particular transaction types and specify performance goals for the transactions in the service class. All transactions entering the system which fall into the workload category described by the service class are associated with the service class.

Please refer to Section 4 for discussion of the relationship between server service classes and transaction service classes.

Of particular importance to this finding is the fact that the System Resources Manager (SRM) **does not accumulate resources** for subsystem transaction service classes. These transaction service classes are simply logical groupings of transactions based on the workload classification scheme, and the actual resources are used by (and attributed to) the address spaces processing the transactions.

For example, CICS transactions may be grouped into a transaction service class. CICS/ESA Version 4 reports information about the transactions to the Workload Manager (transaction response time and transaction delays). The CICS region is the address space which executes CICS tasks to process the CICS transactions, and the region address space uses resources.

Since subsystem transaction service classes do not consist of address spaces, assigning these service classes to a resource group has no effect. The Workload Manager can neither guarantee a minimum CPU service nor restrict the CPU service. The transactions do not use CPU service; the server service classes contain the address spaces using CPU service to process the transactions.

CPEXpert produces Rule WLM021 when it detects that a service class describing subsystem transactions (e.g., CICS or IMS transactions) has been assigned to a resource group.

The following example illustrates the output from Rule WLM021:

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RULE WLM021:  SUBSYSTEM TRANSACTIONS ASSIGNED TO A RESOURCE GROUP

The IMS Service Class was assigned to the IMSRESGP Resource Group.
This service class applied to subsystem transactions.  The Workload
Manager does not apply resource group limits to subsystem transactions.
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Suggestion: CPEXpert suggests that you revise the service definition to eliminate the assignment of the resource group to the subsystem transaction service class. The Workload Manager does not apply resource group limits to service classes defined for subsystem transactions.

Reference: MVS Planning: Workload Management

MVS/ESA(SP 5):	Chapter 7: Defining Resource Groups
OS/390 (V1R1):	Chapter 7: Defining Resource Groups
OS/390 (V1R2):	Chapter 7: Defining Resource Groups
OS/390 (V1R3):	Chapter 7: Defining Resource Groups
OS/390 (V2R4):	Chapter 7: Defining Resource Groups
OS/390 (V2R5):	Chapter 7: Defining Resource Groups
OS/390 (V2R6):	Chapter 7: Defining Resource Groups
OS/390 (V2R7):	Chapter 7: Defining Resource Groups
OS/390 (V2R8):	Chapter 7: Defining Resource Groups
OS/390 (V2R9):	Chapter 7: Defining Resource Groups
OS/390 (V2R10):	Chapter 7: Defining Resource Groups
z/OS (V1R1):	Chapter 7: Defining Resource Groups
z/OS (V1R2):	Chapter 7: Defining Resource Groups
z/OS (V1R3):	Chapter 7: Defining Resource Groups
z/OS (V1R4):	Chapter 7: Defining Resource Groups